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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 August 20 07:07UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 19.08.2025 at 23:00 UTC was 116 sfu.  
The background X-Ray flux is at the class C1.6 level.  
AR4188 erupted on August 19 at 04:39 UT peak time producing a M1.1-class solar flare and a radio blackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on August 17-19.  
An equatorial coronal hole (CH1312) rotated across the central meridian on August 15-18.  
  
**II. Solar Energetic Particle Events**  
Protons and electrons fluxes are quiet.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 718 Km/s on August 19 at 22:00 UT during the last 24 hours.  
The solar wind speed from STEREO A was detected 400 Km/s during the last 24 hours.  
The vertical component of IMF Bz reached the max value -6 nT on August 19 at 16:30 UT during the last 24 hours.  
The geomagnetic field was at quiet to minor storm (G1) levels during the last 24 hours.  
The Kp index now is at unsettled levels with Kp=3.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on August 20 due to effects of a coronal hole high speed wind stream, at quiet to active levels on August 21 and at quiet to unsettled levels on August 22.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 20.08.2025 | 22 | Quiet to Minor storm (G1) |
| 21.08.2025 | 15 | Quiet to Active |
| 22.08.2025 | 08 | Quiet to Unsettled |

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